Process Sheet

: CU-DAR001 Dart Helicopters Services **Drawing Name** : AFT BASE ASS'Y Job Number : 39931 -1 Estimate Number : 13043 P.O. Number Part Number D3651041 This Issue : 18/06/2008 S.O. No. : **Drawing Number D3651 REV.B** Prsht Rev. : NC Project Number First Issue : // : B Type **Drawing Revision** : 36913 Previous Run Material Written By Due Date : 07/07/2008 Each Checked & Approved By Comment : Est Rev:A D verified by: EC ECN 1113P 3841-22 DD verofoed by: EC Est Rev:C ecn1162 38-34-32 DD verified by: EC Additional Product Job Number Machine Or Operation: Seq. #: Description: 1.0 PACKAGING 1 **PACKAGING RESOURCE #1** Comment: PACKAGING RESOURCE #1 Pick Packing Kit 2.0 D3651043 Pange Weldment Comment: Qty.: 1.0000 Each(s)/Unit 2,0000 Each(s) N.P FLANGE ASSEMBLY 39435-1 D36511 9.4 Comment: Qty.: 1.0000 Each(s)/Unit 2 00000 Each(s) GASKET 4.0 D36519 side Doubler N.P Comment: Qty.: 1.0000 Each(s)/Unit Total >, 2.0000 Each(s) DOUBLER D365111 8.4 Comment: Qty.: 1.0000 Each(s)/Unit Total: 2.0000 Each(s) 39933 GASKET

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			17.00	(a)	

Wednesday, 18/06/2008 1:27:25 PM Julie Lecocq

Process Sheet

Drawing Name: AFT BASE ASS'Y Customer: CU-DAR001 Dart Helicopters Services Part Number: D3651041 Job Number: 39931 Job Number: Description: Seq. #: Machine Or Operation: Outside Doubler D365113 6.0 2.0000 Each(s) P.P 1.0000 Each(s)/Unit Total: Comment: Qty.: 08-07-290 DOUBLER CR3523402 7.0 Total: 116.0000 Each(s) 58.0000 Each(s)/Unit Comment: Qty.: RIVET SMALL & MEDIUM FAB RESOURCE SMALL FAB 1 8.0 Comment: 1-Assemble as per dwg D3651 2- Seal all mating surfaces and gaps using Proseal 700 fire wall sealant as per dwg D3651 Batch: M 106 299 3-install D3651-1 using 3M high per formance contact adhesive 1357 as per dwg D3651 FF 08-07-290 INSPECT WORK TO CURRENT STEP QC5 9.0 WORK TO CURRENT STEP Comment: INSPECT PACKAGING RESOURCE #1 PACKAGING 10.0 Comment: PACKAGING RESOURCE #1 Identify wiith Dart part # using a fine point permanent marker and Stock

OC21 11.0

FINAL INSPECTION/W/O RELEASE

Comment FINAL INSPECTION/W/O RELEASE

Job Completion





MF 08-08-05

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Dart Aerospace Ltd

W/O:		WORK ORDER CH	ANGES				3.
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
			المحما				

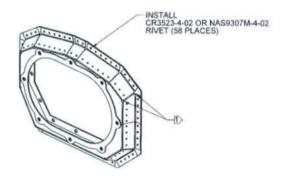
Part No: <u>D3651-041</u> PAR #: <u>DIA</u> Fault Category: <u>Flod (488 ASS)</u> NCR: Yes No DQA: <u>D</u> Date: <u>08/05/08</u>

D365-765-041

Date: <u>08/06/08</u>

NCR: 39	731	W	ORK OR	DER NON-CONFORMANC	E (NCR)			
		Description of NC Corrective Action Section B					Approval	Approval
DATE STEP		Section A	Initial Action Description Chief Eng Chief Eng		Sign & Section C		Chief Eng	Approval QC Inspector
08/07/21	470	Durring Assembly it was noticed that the fell Assembly was more Assembled invertely: Hit the D3651-11 /D3651-13 Was installed with CR3532-4-01 Rints not CR3532-4-02 and the Prosent 700 was not put in place. R.C. employee assembles on who 39935 R and followed the D3651-1 Diag not the -out was also mose dellar inspection	OBOLT.	Parts are accatable or per David Shephards E-moul attache to the Bock: [Botween Marc B. AND DAVIDS July 23, ne. 2008) INSTALL Prografices per B# MC6294	\$ 00.0 08-07-50	5 8/2/30 S 8/2/30 S 8/2/30	13 OB 04 05	06/19/23 06/19/23 06/19/23

D3651-13 OUTSIDE DOUBLER D3651-11 GASKET D3651-9 INSIDE DOUBLER D3651-043 FLANGE WELDMENT -D3651-1 GASKET



QTY -041	PART NUMBER	DESCRIPTION
X	D3651-041	AFT BASE ASSEMBLY
1	D3651-043	FLANGE WELDMENT
1	D3651-1	GASKET
1	D3651-9	INSIDE DOUBLER
1	D3651-11	GASKET
1	D3651-13	OUTSIDE DOUBLER
58	CR3523-4-02 or NAS9307M-4-02	RIVET



B	SHEET SHEET SHEET	1 GENERAL I 2 8.74 WAS 8 5 4 5 5 8 8 9 7 5 514 WAS	RF	08.01.07			
A	NEW IS	SUE		RF	07.11.07		
REV.			DESCRIPTION	BY	DATE		
DESIG	N	RF	DART AEROSPACE LTD				
DRAW	n N	RF	HAWKESBURY, ONTARI	C. Landie			
CHEC	KED	WE	DRAWING NO.		REV. B		
MFG.	APPR.	MA	D3651		SHEET 1 OF 9		
APPROVED DE APPR.		M	TITLE				
		11.7	AFT BASE ASSEMBLY				
DATE 08.01.07			COPYRIGHT O 2007 BY DART A	EROSPAC OR THE COMM	ELTD BLOMBER NATTS		

D3651-041 AFT BASE ASSEMBLY

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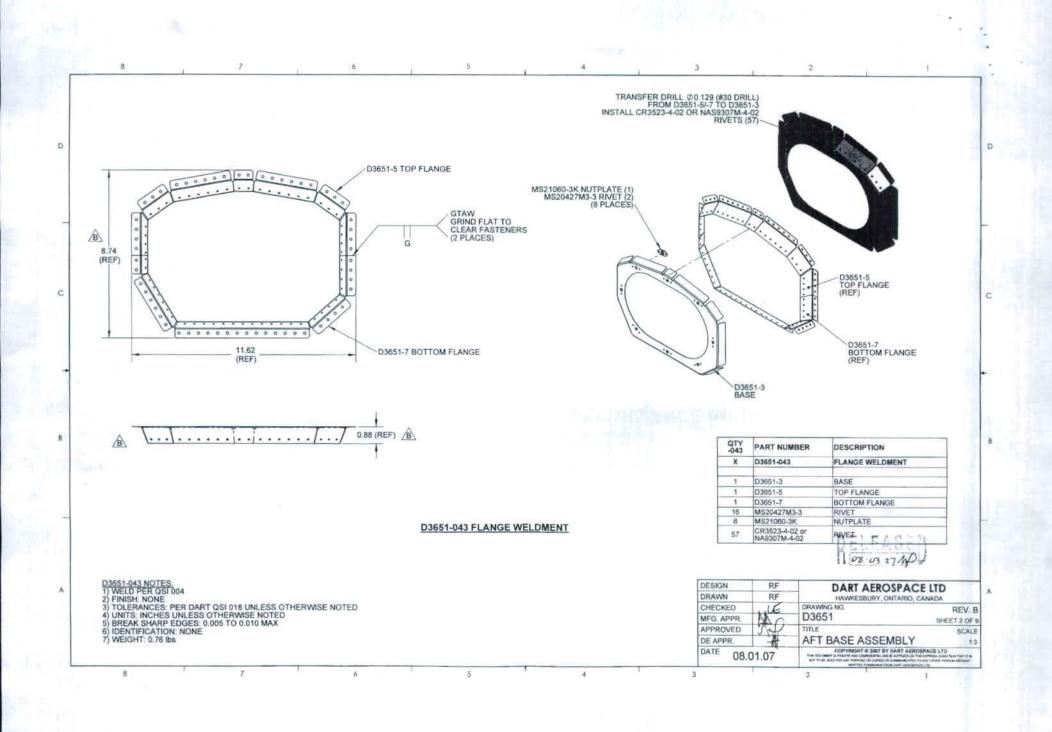
D3651-041 NOTES:

1) SEAL ALL MATING SURFACES AND GAPS USING PROSEAL 700 FIRE WALL SEALANT
2) INSTALL D3651-1 USING 3M HIGH PERFORMANCE CONTACT ADHESIVE 1357
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: NONE
7) WEIGHT: 1.6 lbs

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W/O:			WORK ORDER	CHANGES				
DATE	STEP	PR	OCEDURE CHANGE	В	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Category:	NCR: Y	es No [QA:	Date: _	
				Q	A: N/C Clo	sed:	_ Date: _	
Various Pinns			WORK ORDER NON-COM	IEORMANCE (N	ICB)			

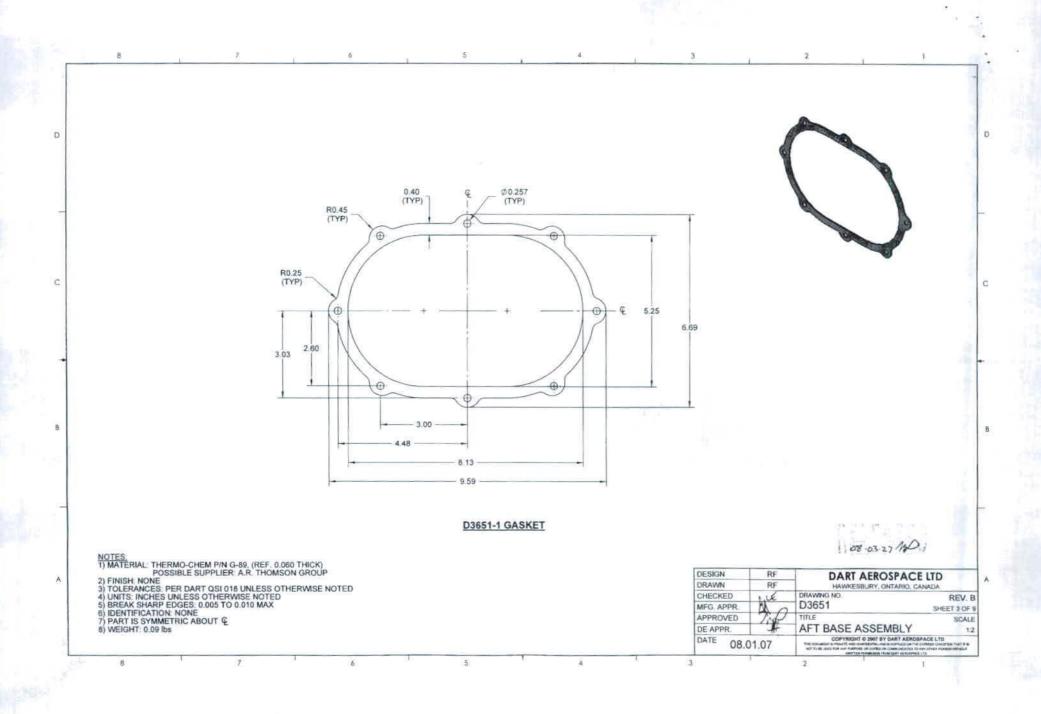
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		Description of NC	1	Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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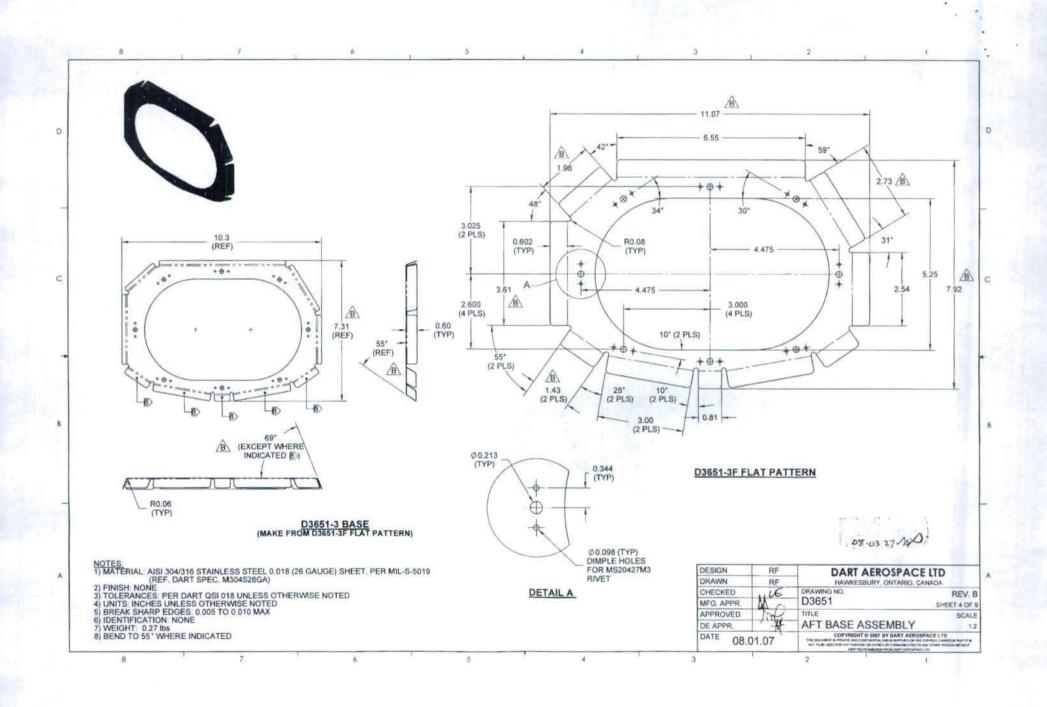
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W/O:			WORK ORDER CH	ANGES				
DATE	STEP	PROCEDURE CHANGE				Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Category:	NCR:	Yes No	DQA:	Date: _	
				Q	A: N/C	Closed:	_ Date: _	
NCR:		1	WORK ORDER NON-CONFO	RMANCE (N	NCR)			
DATE	STEP	Description of NC	Corrective Action Initial Action Descrip	Section B	ign &	Verification	Approval	Approval

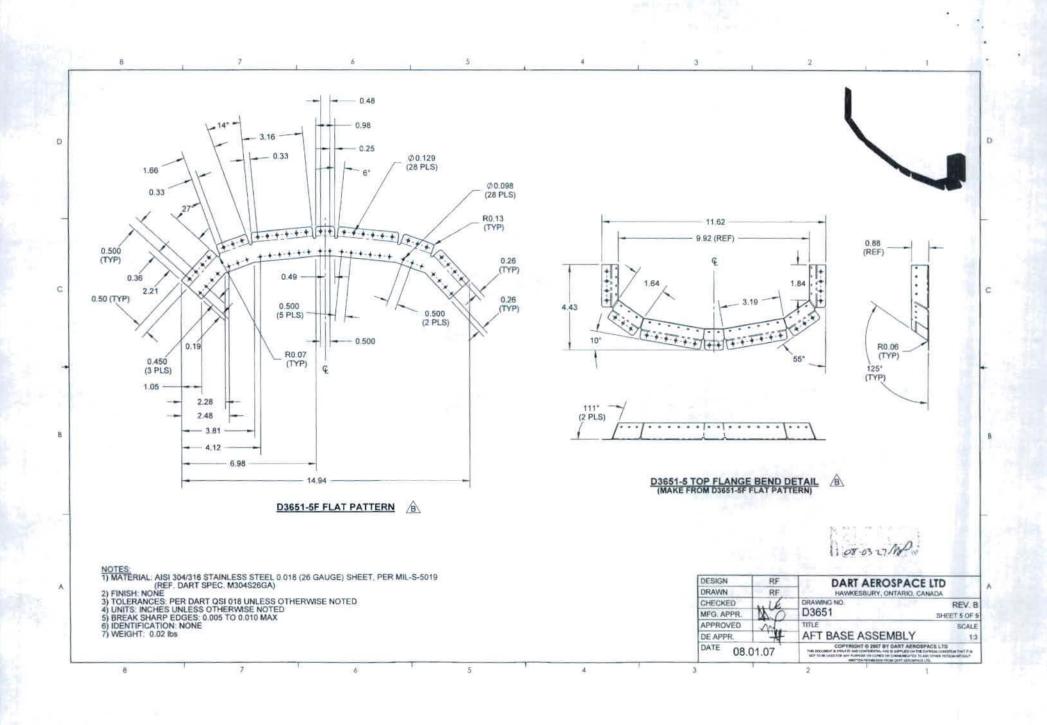
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector	
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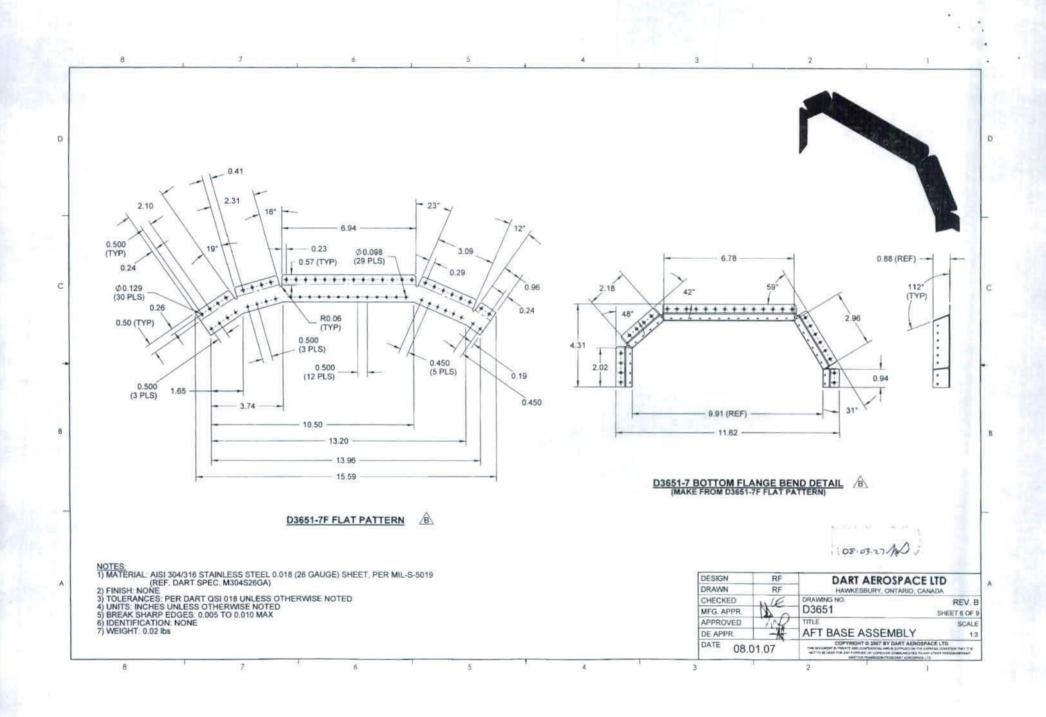
Dart Aerospace Ltd

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W/O:			WC	RK ORDER CHANG	ES				
DATE STEP		PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	_ Date: _	
,					QA: N	C Close	d:	_ Date: _	
NCR:			WORK ORDE	ER NON-CONFORMA	ANCE (NCR)			
		Description of NC Corrective Action S			on B	Verification		Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		Section C	Chief Eng	QC Inspector

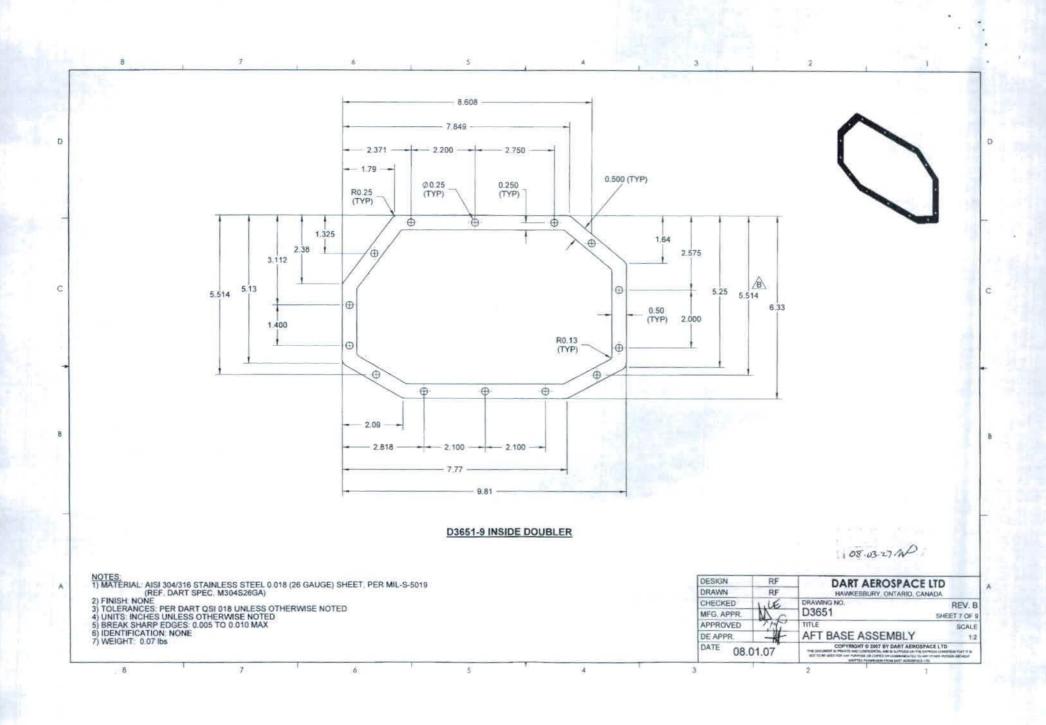


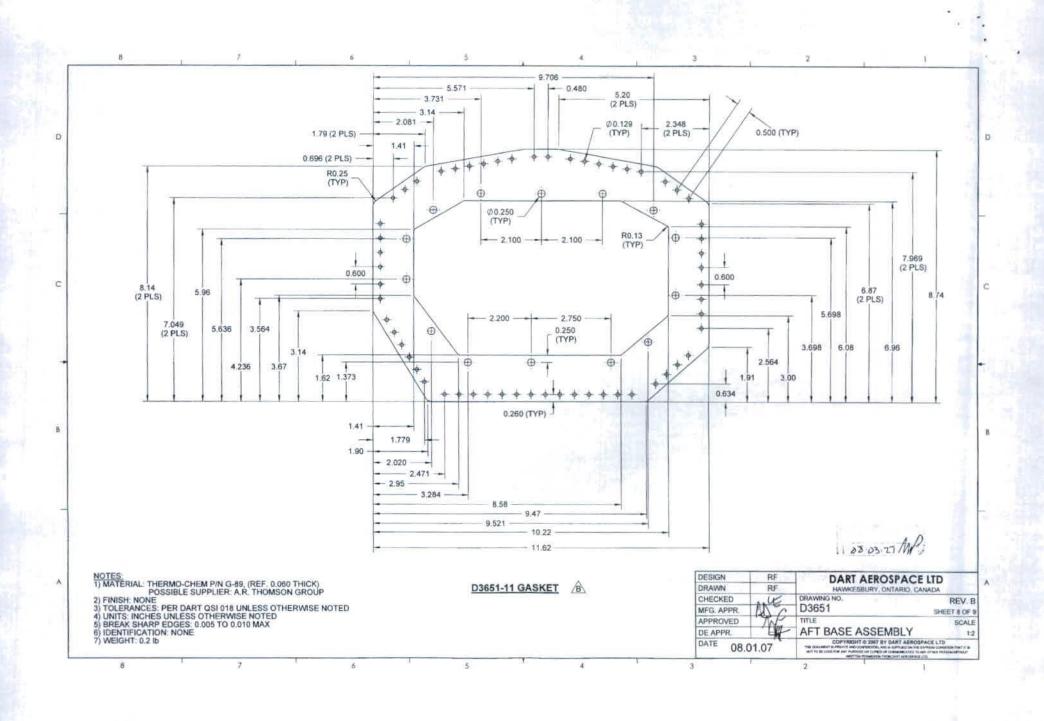


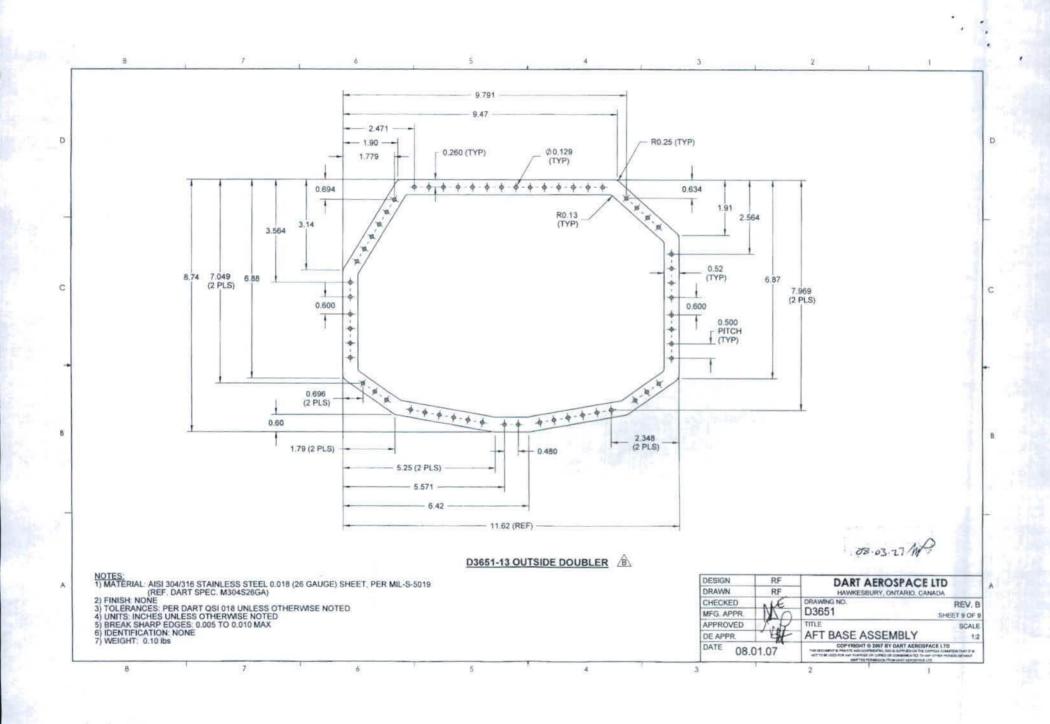
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Marc Bellavance

From: David Shepherd [dshepherd@dartaero.com]

Sent: July 23, 2008 2:56 AM

To: 'Marc Bellavance'
Cc: 'Roberto Fuentes'

Subject: RE: Non-conforming D3651-041

Marc.

With respect to the rivets, the length change is insignificant. If the rivets pulled up properly, then you can sign this off as a deviation. If the -01 are better than -02, we should change the drawing. This is surprising since we've already made these before ...

With respect to the sealing issue, the intent is that we seal mating surfaces when there is metal to metal contact. Where there is a gasket between two pieces of metal, then I don't think we need sealant. Any air gaps in the assembly should be plugged with sealant after rivetting

Sorry for the slow response. I hope this makes sense.

David

From: Roberto Fuentes [mailto:rfuentes@dartaero.com]

Sent: Monday, July 21, 2008 11:48 AM

To: David Shep erd

Subject: FW: Non-conforming D3651-041

Importance: High

From: Marc Bellavance [mailto:mbellavance@dartaero.com]

Sent: Monday, July 21, 2008 11:24 AM

To: 'Roberto Fuentes (E-mail)'

Subject: Non-conforming D3651-041

Importance: High

Hi Roberto (a.k.a. David)... or is it David (a.k.a. Roberto)...

Anyways, here are the details about the non-conforming D3651-041:

- 1) Drawing says to seal all mating surfaces and gaps using Proseal 700 Fire Wall Sealant: that did not happen and all parts are riveted;
 - Drawing says to use CR3523-4-02 Rivets to fasten D3653-043/-11/-13: the rivets used were CR3532-4-01 Rivets;
 - 3) If Items 1 and 2 above are acceptable deviations, is GA required to apply a bead of Proseal 700 all around the inside perimeter of the assembly (where D3651-043 and D3651-11) to ensure all gaps are sealed?
 - 4) Quantity of non-conforming parts: 1.

Please let me know if this is acceptable or not.

Thanks!

Regards,

, "		
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Marc Bellavance Mechanical Designer/Technical Support

. DART aerospace Ltd.

Tel: 613-632-5200 Ext. 240

Fax: 613-632-9311

E-mail: mbellavance@dartaero.com

Web: www.dartaero.com

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Checked by AVG.

Version: 7.5.524 / Virus Database: 270.5.3/1564 - Release Date: 7/21/2008 6:42 AM

No virus found in this outgoing message.

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Version: 7.5.524 / Virus Database: 270.5.4/1566 - Release Date: 7/22/2008 6:00 AM

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